

## THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Michael J. Scaggs

Application No.: 09/733,874

Filed: December 8, 2000

For: 157 NM LASER SYSTEM AND METHOD  
FOR MULTI-LAYER SEMICONDUCTOR  
FAILURE ANALYSIS

Group Art Unit: 2815

Examiner: DIAZ, JOSE R

**RESPONSE TO OFFICE ACTION  
MAILED DECEMBER 4, 2002**121 Spear Street, Suite 290  
San Francisco, CA 94105  
(415) 512-1312Box NON-FEE AMENDMENT  
Commissioner for Patents  
Washington, D.C. 20231**CERTIFICATE OF MAILING**I hereby certify that this correspondence is being deposited  
with the United States Postal Service as First Class Mail in an  
envelope, addressed to: Commissioner for Patents,  
Washington, DC 20231 on March 4, 2003.

STALLMAN &amp; POLLOCK LLP

Dated: 03/4/2003

By:

Georgia R. Stith

Sir:

In response to the December 4, 2002, Office Action, the Applicant respectfully responds  
as follows, and reconsideration is requested.

**REMARKS**

The Office Action rejected pending claims 1-9 and 19-35 under 35 USC §102(e) as being  
anticipated by Vogler (US 2002/0176469 A1). This rejection is respectfully traversed as  
follows.

In rejection the three pending independent claims 1, 19 and 28, the Office Action states in  
part:

Regarding claims 1, 19 and 28, Vogler et al. teach a method of performing  
failure analysis (see pages 1-17) comprising: exciting a gain medium containing  
molecular fluorine (F<sub>2</sub>) having an output beam of 157 nm (see Figs 1A-1b and 2);  
and directing the output beam (20) onto a semiconductor device to selectively  
etch away material therefrom (see paragraph [008]).

Office Action, p. 2.

Atty Docket No.: LMPY-10910

RECEIVED  
MAR 12 2003  
TECHNOLOGY CENTER 280

2815



STALLMAN & POLLOCK LLP  
121 Spear Street, Suite 290  
San Francisco, CA 94105  
(415) 512-1312

Atty Docket No. LMPY-10910 [252/U]

In re Patent Application of: Michael J. Scaggs

Application No.: 09/733,874

Filed: December 8, 2000

For: 157 NM LASER SYSTEM AND METHOD FOR MULTI-LAYER SEMICONDUCTOR FAILURE ANALYSIS

Box NON-FEE AMENDMENT  
Commissioner for Patents  
Washington, D.C. 20231

Sir:

Transmittal herewith is an amendment in the above-identified application.

The fee has been calculated as shown below.

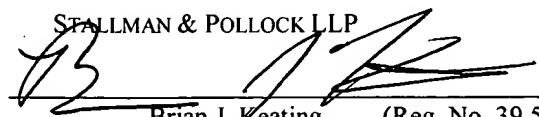
|   | CLAIMS<br>REMAINING<br>AFTER<br>AMENDMENT |       | HIGHEST NO.<br>PREVIOUSLY<br>PAID FOR | PRESENT<br>EXTRA | RATE     | ADDITIONAL<br>FEE |
|---|---|-------|---------------------------------------|------------------|----------|-------------------|
| TOTAL                                     | 35  | MINUS | 35                                    | 0                | x \$18 = | \$0               |
| INDEP.                                    | 4   | MINUS | 4                                     | 0                | x \$84 = | \$0               |
| FIRST PRESENTATION OF MULTIPLE DEP CLAIMS |   |       |                                       |                  | + \$280  | \$0               |
| TOTAL                                     |   |       |                                       |                  |          | \$0               |

Small Entity 50% Filing Fee Reduction (if applicable) \$0

- \* If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3
- \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.
- \*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space. The "Highest Number Previously Paid For" (Total or Independent is the highest number found from the equivalent box in Col. 1 of a prior amendment or the number of claims originally filed.)

- ☒ No additional fee is required.
- ☐ A check in the amount of \$\_\_\_\_\_ is attached.
- ☒ Please charge any additional fees, including any fees necessary for extensions of time or credit overpayment to Deposit Account No. 50-1703, under Order No. [Client No. ]LMPY-10910. A duplicate copy of this sheet is enclosed.
- ☒ Petition for extension of time. The undersigned attorney of record hereby petitions for an extension of time pursuant to 37 C.F.R. § 1.136(a), as may be required, to file this response.

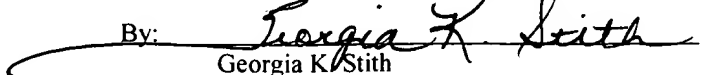
Dated: March 4, 2003

By:   
Brian J. Keating (Reg. No. 39,520)  
Attorneys for Applicant(s)

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on March 4, 2003.

Dated: March 4, 2003

By:   
Georgia K. Stith

RECEIVED  
MAR 12 2003  
TECHNOLOGY CENTER 2800